IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

EXPRESS MAIL No.:	EL 990504794 US
APPLICANT(s):	MAUL et al.
SERIAL NO.:	ART UNIT:
FILING DATE:	Herewith EXAMINER:
TITLE:	SUBSTITUTED γ-LACTONE COMPOUNDS AS NMDA-ANTAGONISTS
ATTORNEY DOCKET NO.:	785-011640-US(C01)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT
(37 C.F.R. §1.97(b)(1))

Sir:

This Information Disclosure Statement is filed together with the above-identified patent application. Thus, a certification under 37 C.F.R. 1.97 (e) or fee under 37 C.F.R. 1.17(p) is not required for the information herein to be considered.

The following information is being disclosed to the Patent and Trademark Office as information that may be

material to the examination of the above-identified patent application.

The above-identified patent application claims priority to German Patent Application No. 10132725.0 filed July 5, 2001 and claims the benefit of PCT International Application No. PCT/EP02/07380 filed July 3, 2002. Applicants' attorney encloses a copy of a German Search Report issued on the priority German Patent Application No. 10132725.0 and a PCT International Search Report issued on the corresponding PCT International Application No. PCT/EP02/07380. The German Search Report cited "Synthesis And Pharmacological Properties of Derivatives Of α-Amino-β-(p-Chlorobenzoyl)-Propionic Acid And α-Amino-γ-(p-Chlorophenyl)-Tetrahydrofuran-2-One", Zabska et al., Polish J. Pharmacol. Pharm, 1991, 43, pp. 271-280.

The PCT International Search Report cited "Chemoenzymic Synthesis of Unnatural Amino Acids via Modified Claisen Rearrangement of Glycine Enolates. Approach to Morphine Synthesis", Gonzalez et al., Journal of Organic Chemistry, 1997, 62(5), pp. 1194-1195; "Friedel-Crafts Reactions Of γ-aryl-γ-lactones", Plusquellec, Journal Chemical Research, SYNOP. 1982, pp. 46-47; "Reactions Of Glyoxylic Acid Derivatives With Olefins: Synthesis of .Alpha.-substituted.gamma.-lactones:, Plusquellec et al., Bulletin Societe Chimique De France, 1979, No. 9-10, PT 2, pp. 552-558; "A New Synthesis Of Amino Acids. II. Amidoalkylation of Olefins With Glyoxylic Acid Derivatives", Ben-Ishai et al., Tetrahedron Lett. 1975, Vol. 33, pp. 1533-1442; "Amino Acid Synthesis II. Amidoalkylation Of Olefins With Glyoxylic Acid Derivatives", Altman et al., Tetrahedron Lett. 1975, No. 43, PP. 3737-3740 and "Synthesis and Pharmacological

Study Of Some New Beta-(Dialkylaminomethyl)-Gamma-Butyrolact Ones and Their Tetrahydrofuran Analogues", Foscolos et al., Societa Chimica Italiana, No. 51, 1996, pp. 19-26.

Applicants' attorney also encloses copies of the following documents that were cited in the specification of the above-mentioned patent application: European Patent Application No. EP 0386839 B1; PCT International Publication Nos. WO 98/42673, WO 98/07704 and WO 97/12879; "Relationship Between the Inhibition Constant (K_1) and the Concentration of Inhibitor Which Causes 50 per cent Inhibition (I_{50}) of an Enzymatic Reaction", Cheng et al., Biochemical Pharmacology, Vol. 22, pp. 3099-3108, 1973; "2-Carboxytetrahydroquinolines. Conformational and Stereochemical Requirements for Antagonism of the Glycine Site on the NMDA Receptor, Carling et al., J. Med. Chem. 1992, 35, pp. 1942-1953; and [^{3}H]MDL 105,519, a High-Affinity Radioligand for the N-Methyl-D-aspartate Receptor-Associated Glycine Recognition Site", Baron et al., Jnl of Pharm. And Experimental Therapeutics, 1996, pp. 62-68.

Pursuant to Sections 609 and 707.05(b) of the MPEP and 37 C.F.R. 1.97-1.99, the undersigned is bringing the following co-pending U.S. patent applications of which he is aware, to the attention of the Examiner in the above-identified application as they may be considered pertinent to the invention claimed in the above-identified application.

(1) Express Mail No.: EL 990504542 US
Mailing Date: January 5, 2004
Title: Substituted 1-Aryl-But-3-Enylamine
And 1-Aryl-But-2-Enylamine Compounds

Assignee: Grunenthal GmbH et al.
Attorney Docket No.: 785-011630-US(C01)

(2) Express Mail No.: EL 990504803 US
Mailing Date: January 5, 2004
Title: Substituted 1-Phenethylpiperidine Compounds Used As Inter Alia Analgesics
Assignee: Grunenthal GmbH
Attorney Docket No.: 785-011641-US(C01)

(4) Express Mail No.: EL 990504539 US
Mailing Date: January 5, 2004
Title: Use Of Substituted Gamma-Lactone Compounds As Pharmaceutical Preparations
Assignee: Grunenthal GmbH
Attorney Docket No.: 785-011642-US(C01)

The filing of this Statement is not to be construed as a representation that a search has been made regarding the claimed invention (37 C.F.R. §1.97(g)) or that no other possible material information exists. In addition, the filing of this Information Disclosure Statement is not to be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability (37 C.F.R. §1.97(h)).

The Commissioner is hereby authorized to charge payment for any additional fees associated with this

communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,

5 January 2004

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Date

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INFORMATION DISCLOSURE CITATION FORM FOR PATENT APPLICATION (FORM PTO-1449) (Substitute)	Docket No.: 785-011640-US(C01)	Serial No.:
	Applicant(s): MAUL et al.	
	Filing Date: Herewith	Group:

U.S. PATENTS

Initials	Patent Number	Issue Date	Name	Class	Sub-class	Filing date

U.S. PATENT PUBLICATIONS

Initials	Publication No.	Pub. Date	Name	Class	Sub-class	Filing Date

FOREIGN PATENT DOCUMENTS

Initials	Document Number	Date	Country	Name	Translation? Yes/No/n/a
	EP0386839 B1	1/15/97	Europe	Merck Sharp & Dohme Ltd.	n/a
	WO 98/42673	10/1/98	PCT	Glaxo Wellcome S.P.A.	n/a
	WO 98/07704	2/26/98	PCT	Glaxo Wellcome S.P.A.	n/a
	WO 97/12879	4/10/97	PCT	BASF Aktiengesellschaft	no

OTHER DOCUMENTS (Title, Author, Date, Pages, Etc., if known)

	"Synthesis And Pharmacological Properties of Derivatives Of α-Amino-β-(p-Chlorobenzoyl)-Propionic Acid And α-Amino-γ-(p-Chlorophenyl)-Tetrahydrofuran-2-One", Zabska et al., Polish J. Pharmacol. Pharm, 1991, 43, pp. 271-280.
	"Chemoenzymic Synthesis of Unnatural Amino Acids via Modified Claisen Rearrangement of Glycine Enolates. Approach to Morphine Synthesis", Gonzalez et al., Journal of Organic Chemistry, 1997, 62(5), pp. 1194-1195.
	"Friedel-Crafts Reactions Of γ-aryl-γ-lactones", Plusquellec, Journal Chemical Research, SYNOP. 1982, pp. 46-47.
	"Reactions Of Glyoxylic Acid Derivatives With Olefins: Synthesis of .Alpha.-substituted.gamma.-lactones", Plusquellec et al., Bulletin Societe Chimique De France, 1979, No. 9-10, PT 2, pp. 552-558.
	"A New Synthesis Of Amino Acids. II. Amidoalkylation of Olefins With Glyoxylic Acid Derivatives", Ben-Ishai et al., Tetrahedron Lett. 1975, Vol. 33, pp. 1533-1442.
	"Amino Acid Synthesis II. Amidoalkylation Of Olefins With Glyoxylic Acid Derivatives", Altman et al., Tetrahedron Lett. 1975, No. 43, PP. 3737-3740.
	"Synthesis and Pharmacological Study Of Some New Beta-(Dialkylaminomethyl)-Gamma-Butyrolact Ones and Their Tetrahydrofuran Analogues", Foscolos et al., Societa Chimica Italiana, No. 51, 1996, pp. 19-26.
	"Relationship Between the Inhibition Constant (K_I) and the Concentration of Inhibitor Which Causes 50 per cent Inhibition (I_{50}) of an Enzymatic Reaction", Cheng et al., Biochemical Pharmacology, Vol. 22, pp. 3099-3108, 1973.
	"2-Carboxytetrahydroquinolines. Conformational and Stereochemical Requirements for Antagonism of the Glycine Site on the NMDA Receptor, Carling et al., J. Med. Chem. 1992, 35, pp. 1942-1953.
	"[^{3}H]MDL 105,519, a High-Affinity Radioligand for the N-Methyl-D-aspartate Receptor-Associated Glycine Recognition Site", Baron et al., Jnl of Pharm. And Experimental Therapeutics, 1996, pp. 62-68.

Examiner's Signature:	Date Considered:

Initial if reference was considered, whether or not citation is in conformance with MPEP. Mark through citation if not considered. Include a copy of this citation form with your next correspondence to the Applicant(s).